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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,440	03/09/2004	Bruce Richard Crain	NORT 64197	1812
7590 04/19/2005			EXAMINER	
Robert P. Lenart			CAO, HUEDUNG X	
Pietragallo, Bosick & Gordon One Oxford Centre, 38th Floor			ART UNIT	PAPER NUMBER
301 Grant Street			2821	
Pittsburgh, PA 15219			DATE MAILED: 04/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/796,440	CRAIN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Huedung X. Cao	2821					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period versillure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>09 M</u>	arch 2004.						
=	<u>, </u>						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6</u> is/are rejected.							
7) Claim(s) is/are objected to.							
•	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>09 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of the certified copies flot received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	te atent Application (PTO-152)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 03/09/04. 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by ALT et al. (US 6,198,445 B1).

As per claim 1, Alt teaches the claimed "a conformal load-bearing antenna assembly" comprising:

a pan shaped to fit within an aircraft window opening (Alt, column 2, lines 14-26);

an antenna element disposed within the pan (Alt, figure 1, radiating element 14; column 3, line 62-column 4, line 24);

a connection for coupling a signal to the antenna element (Alt, column 4, lines 2-24);

Claim 2 adds into claim 1, wherein the antenna element comprises a stripline supported by dielectric sheet, and at least one radiating element couple to stripline (Alt, column 4, lines 34-58);

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Claim 3 adds into claim 2, wherein the antenna element further comprises a front ground plane and a back ground plane, with the front ground forming with one or more slots adjacent to the radiating element (Alt, column 6, lines 38-57);

Claim 4 adds into claim 1, further comprising a conductive gasket positioned adjacent to the perimeter of the antenna element, electrically bonding the antenna to an aircraft fuselage and providing a pressure seal (Alt, column 4, line 59-column 5, line 37);

Claim 5 adds into claim 1, wherein the pan forms a pressure seal with the aircraft window opening (Alt, column 6, lines 5-34);

Claim 6 adds into claim 1, comprising a bonding strap for carrying lightning currents form the antenna structure to a fuselage of the aircraft (Alt, column 6, lines 5-53).

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Inquiries

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huedung Cao whose telephone number is (571) 272-1939.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huedung Cao Patent Examiner